BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

NAME OF WORK: Package No. 03 (Package Consists of 06 Works Rs. 1000.00 Lakhs)

1. Improvement of roads, drains and other allied works at Kempegowda layout surrounding areas and Construction of Samudhaya Bhavana building in Thindlu village in ward No. 10 Byatarayanapura.
2. Improvement of roads, drains and other allied works at Canara bank layout and surrounding areas in ward No. 10 Byatarayanapura.
3. Improvement of roads, drains and other allied works at Sahakaranagara A block, Yashodha nagara and surrounding areas in ward No. 10 Byatarayanapura.
4. Improvement of roads, drains and other allied works at Tata Nagar, T B Layout and surrounding areas in ward No. 11 Kodigehalli.
5. Improvement of roads, drains and other allied works at Sonnegowda layout, Pillappa layout, Maruthi layout and surrounding areas in ward No. 11 Kodigehalli.
6. Improvements to Roads and Drains at Hanuman Layout, RR School Surroundings, Yelagamma Layout, Doddabommasandra Village and Surrounding areas in New Ward No. 12 (Doddabommasandra).

ESTIMATE ABSTRACT

Estimate Cost : Rs.1000.00 Lakhs

SL NO	Description	UNIT	Qty	RATE	AMOUNT
1	Removing and resetting of footpath slab (Approved arrival rate)	Sqm	7635.72	235.00	1794394.00
2	Removing and resetting of kerb stone (Approved arrival rate).	Mtr	2056.10	118.00	242620.00
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead V-3 2.8 (ii) b	Cum	10.08	1218.80	12286.00
4	Dismantling of cement concrete pavement, Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately [PWD SR 2023-24/ Volume-3/ Chapter-2/P.NO-12/ Item no:-2.19/Ref. to MoRT&H : IRC 202]	Cum	234.51	619.30	145232.00
5	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kinds of soils Depth upto 1.5 m[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-5/ Item no:-1.4.1]	Cum	8283.70	266.20	2205121.00
6	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications[PWD SR 2023-24/ Volume-2/ Chapter-6/P.NO-17/ Item no:-6.33]	Sqm	2293.10	1354.10	3105087.00
7	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	72.00	1214.40	87437.00
8	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	417.36	350.63	146339.00
9	Providing 20 mm cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge	Sqm	362.28	589.88	213702.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
10	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.	Sqm	417.36	137.50	57387.00
11	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	417.36	229.63	95838.00
12	Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 ltr/10 m²) over and including priming coat of exterior primer applied @ 2.20kg/10 m² to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	362.28	389.13	140974.00
13	Providing and fixing M.S. grills of required pattern in frames of win- dows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.	Kgs	378.00	201.30	76091.00
14	Providing & fixing of 2.5 track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 94mm width x 45mm height with reinforcement of 1mm thickness and Sash with overall size of 39mm x 58mm with GI reinforcement of 1.5mm and mesh sash of size 25mm x 42mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 1819mm x 1819mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)	Sqm	18.00	7206.10	129710.00
15	Providing ruled pointing to coursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as per specification.[PWD SR 2023-24/ Volume-2/ Chapter-21/P.NO-214/ Item no:-21.10]	Sqm	1575.72	328.90	518254.00
16	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 Using 20 mm nominal size graded crushed coarse aggregates[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-15/ Item no:-2.1.4]	Cum	187.50	6838.70	1282256.00
17	Providing and laying in Cement Concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates [PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-15/ Item no:-2.3.1]	cum	455.25	7511.72	3419712.00
18	Providing and laying in Cement Concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates **Copping Concrete** [PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-15/ Item no:-2.3.1].	Cum	110.28	6955.30	767030.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
19	Steel Fabrication,Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification [PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-91/ Item no:-2.11 C]	Tonne	53.25	86912.10	4628069.00
20	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/ m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drain age of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete. (PWD SR 2023-24 Vol -II Pg No. 177 item No. 17.14)	Sqm	3279.42	1287.00	4220614.00
21	Providing and fixing 230mm thick pre cast reinforced concrete slab as per design and drawing material cost,transportation, hire charges of machinery complete with all lead and lift conveyance charges labour charges inclusive of cost of all materials(As per data rate)	Sqm	345.24	5037.00	1738974.00
22	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cuttingincluding formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete asdirected by the Engineer in Charge of the work (excluding GST and Area Leading Charges) (Data Rate).	Sqm	555.33	507.00	281552.00
23	Painting Two Coats on New Concrete Surfaces, Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces[PWD SR 2023-24/ Volume-3/ Chapter-8/P.NO-66/ Item no:-8.10]	Sqm	807.10	119.90	96771.00
24	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead (PWD SR 2023-24 Vol III, Item No: 3.5, Page No: 17)	Sqm	3177.60	6.60	20972.00
25	Scarifying Existing Granular Surface to a Depth of 50 mm by Mechanical Means using Hydraulic excavator[PWD SR 2023-24/ Volume-3/ Chapter-3/P.NO-17/ Item no:-3.5]	Sqm	1478.60	5.50	8132.00
26	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.In all kinds of soils upto 300 mm depth[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-8/ Item no:-1.12]	Cum	1727.93	104.50	180569.00
27	Wet Mix Macadam (Plant mix method) Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density[PWD SR 2023-24/ Volume-3/ Chapter-4/P.NO-26/ Item no:-4.17]	Cum	2122.46	2814.90	5974513.00
28	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. Prime Coat over WMM/WBM[PWD SR 2023-24/ Volume-3/ Chapter-5/P.NO-29/ Item no:-5.1 A [i]]	Sqm	9846.64	45.10	444083.00
29	Providing and applying Primer Coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 23-24 Vol - III Pg No. 31 Item No. 5.2)	Sqm	3356.10	58.30	195661.00
30	Tack coat on Bituminous surface,Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom[PWD SR 2023-24/ Volume-3/ Chapter-5/P.NO-31/ Item no:-5.3 i]	Sqm	39948.30	13.20	527318.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
31	Providing and applying Tack Coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503 (PWD SR 23-24 Vol III Pg no. 31 Item No 5.4)	Sqm	9724.50	15.40	149757.00
32	Dense Graded Bituminous Macadam Grading - II for traffic <20 MSA,Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects[PWD SR 2023-24/ Volume-3/ Chapter-5/P.NO-35/ Item no:-5.12 A MoRTH Sec 505]	Cum	718.98	10393.90	7473006.00
33	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 23-24 Vol III Pg No. 38 Item No. 5.16 (C))	Cum	1980.95	12049.40	23869259.00
34	Road Marking with Hot Applied Thermoplastic Compound with Re flectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.[PWD SR 2023-24/ Volume-3/ Chapter-8/P.NO-67/ Item no:-8.15 MoRTH Sec803]	Sqm	1612.85	583.00	940292.00
35	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383:2016:, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.[PWD SR 2023-24/ Volume-3/ Chapter-16/P.NO-149/ Item no:-16.28]	Cum	160.35	7429.40	1191304.00
36	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8(M5) Using 40 mm nominal size graded crushed coarse aggregates (PgNo: 15, Vol-(I), I.No: 2.1.2)	Cum	152.80	6230.40	952005.00
37	Providing Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :	Cum	7.97	6172.10	49192.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
38	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates [PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.4.3]	Cum	5.40	7527.17	40647.00
39	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates [PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.5.2]	Sqm	6.08	12796.41	77802.00
40	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.5.2]	Sqm	47.96	11290.95	541514.00
41	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:2:4 Using 20 mm nominal size graded crushed coarse aggregate (PWD SR 2023-24 Vol -I Pg 15 Item No. 2.1.6))	Cum	336.87	6867.30	2313387.00
42	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.4.2]	Cum	50.26	7650.83	384531.00
43	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2023-24 Vol -I Pg 16 item no 2.4.2))	Cum	328.39	7303.07	2398254.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
44	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification.. (Item No 2.11 (Vol-I) Page No 18)	Tonne	6.69	98402.70	658314.00
45	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.(PgNo: 7, Vol-(I), I.No: 1.9)	Cum	17.28	292.60	5056.00
46	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates.[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.4.1]	Cum	9.55	7044.40	67274.00
47	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. (Item No 12.11, (Vol-II) Page No 99)	Cum	0.17	151881.40	25820.00
48	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures) (Item No 12.15, (Vol-II) Page No 100)	Sqm	5.04	8188.40	41270.00
49	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent. (Item No 9.24, (Vol-II) Page No 63)	Sqm	221.47	3137.20	694796.00
50	Providing and fixing 18 mm thick gang saw cut granite of any color and shade, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch up, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Area of slab over 0.50 m2. (Page No.68 , Item No.10.1.2 of KPWD Vol-2 SR2023-24)	Sqm	52.95	4330.70	229311.00
51	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.. - 25mm nominal OD pipes. (Page No. 122, I.No.13.32.3 KPWD SR Vol-2 2023-24)	Rmt	75.00	524.70	39353.00
52	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc..- 32mm nominal OD pipes. (Page No. 122, I.No.13.32.4 KPWD SR Vol-2 2023-24)	Rmt	45.00	612.70	27572.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
53	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (Page No.85 , Item No.11.28 of KPWD Vol-2 SR 2023-24)	Kgs	569.60	621.50	354006.00
54	Concealed Conduit System Supplying heavy gauge PVC conduit pipe ……mm dia ..... mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary. (P.N0.2 ,I.No. 1.2.1) PWD Part-1 ELEC SR2023-24)	Mtr	50.00	66.00	3300.00
55	Groove cutting in walls Supplying heavy gauge PVC Conduit Pipe ….dia ....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (Pno 2 ; I No 1.3.1) PWD Part-1 ELEC SR 2023-24	Mtr	50.00	68.00	3400.00
56	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc. ((P.N0.2 ,I.No. 1.4.7) PWD Part-1 ELEC SR 2023-24)	Each	10.00	348.00	3480.00
57	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. a)1 sqmm ((P.No. 5, I.No.2.3.1) PWD Part-1 ELEC SR 2023-24)	Mtr	50.00	19.00	950.00
58	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. b) 1.5 sqmm (P.No. 5, I.No.2.3.2) PWD Part-1 ELEC SR 2023-24	Mtr	50.00	26.00	1300.00
59	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. e) 12 Module. (P.No.8, I.No.3.5.6) PWD Part-1 ELEC SR2023-24	Mtr	8.00	344.00	2752.00
60	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. f)16 Module. (P.No8, I.No.3.5.6) PWD Part-1 ELEC SR 2023-24	Mtr	4.00	397.00	1588.00
61	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. a)6Amps one way. (P.No. 9, I.No.3.6.1) PWD Part-1 ELEC SR 2023-24	No.	24.00	102.00	2448.00
62	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. c) 6Amps 3way socket. (P.No. 9, I.No.3.6.3) PWD Part-1 ELEC SR 2023-24	No.	10.00	171.00	1710.00
63	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. d) Stepped Fan Regulator Two Module. (P.No. 9, I.No.3.6.4) PWD Part-1 ELEC SR 2023-24	No.	8.00	357.00	2856.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
64	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS: 1709/1984 with latest amendment, Rated voltage 220 V/50 Hz, Rated power input 48 W +/- 10 %, Rated current As per IS:374/79, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value 4.2 CMM / W, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation, Bearing Two ball bearings, Top 6202, Bottom 6201, as per IS specification, Motor winding. Temp rise Shall not exceed 75 deg C over and ambient of 40 0C by resistance method at 245 V, Insulation resistance Shall not be less than Two Mega Ohms (2M Ohms), Leakage current Should not exceed 210 Micro Amp, Power input, W& current, Air Delivery & Fan Speed as per IS:374/1979 with latest amendment, 2 year manufacturer Warranty. 56" Sweep 5 Star (1400 mm). (P.No. 30, I.No.6.4.2) PWD Part-1 ELEC SR 2023-24)	Each	8.00	3754.00	30032.00
65	Fixing all types and all capacities of fluorescent / false ceiling/ spot light / CFL / LED fittings indoor on the wall / ceiling /rafters / girders using 23/0.0076" twin twisted PVC insulatedwires, required Nos of round blocks and clamps. ((P.No.56, I.No.13.7.1) PWD Part-1 ELEC SR 2023-24)	Each	16.00	122.00	1952.00
66	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 18W, 6500K. ((P.No. 47, I.No.11.11.7) PWD Part-1 ELEC SR 2023-24)	Each	8.00	426.00	340 .0
67	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including econnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test [PWD SR 2023-24/ Volume-5/ Chapter-12/P.NO-140/ Item no:-12.4]	No.	1.00	5446.64	5447.00
68	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimumworking of compressor for one hour (Excluding cost of casing pipes,collars, cap etc., complete) 0-50mtrs(PWD SR 2023-24Vol-V Page No.139, Item No.12.1.1)	Mtr	50.00	298.70	14935.00
69	50-100mtrs(PWD SR 2023-24Vol-V Page No.139, Item No.12.1.2)	Mtr	50.00	374.92	18746.00
70	100-150mtrs (PWD SR 2023-24Vol-V Page No.139, Item No.12.1.3)	Mtr	50.00	398.61	19931.00
71	150-200mtrs (PWD SR 2023-24Vol-V Page No.139, Item No.12.1.4)	Mtr	50.00	462.47	23124.00
72	200-250mtrs (PWD SR 2023-24Vol-V Page No.139, Item No.12.1.5)	Mtr	50.00	542.81	27141.00
73	250-300mtrs(PWD SR 2023-24Vol-V Page No.139, Item No.12.1.6)	Mtr	50.00	574.74	28737.00
74	300-350mtrs (PWD SR 2023-24Vol-V Page No.139, Item No.12.1.7)	Mtr	50.00	638.60	31930.00
75	350-400mtrs (PWD SR 2023-24Vol-V Page No.139, Item No.12.1.8)	Mtr	40.00	965.11	38604.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
76	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m. prices include Collar-Medium duty. (PWD SR 2023-24 Vol-V Page No.143, Item No.12.32]	Mtr	60.00	1990.99	119459.00
77	PVC pipes of 10 Kg/cm2 for 200mm (PWD SR 2023-24 Vol-V Page No.A-44, Item No.664]	Mtr	10.00	1155.00	11550.00
78	Providing and laying at site of work MS casing caps as per IS 1239 (partII) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge (PWD SR 2023-24 Vol-V Page No 143, Item No 12.34]	No.	1.00	168.92	169.00
	Fabricating supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. (PWD Electrical SR 2023-24Vol-VI Page No.20, Item No.5.42.2)	Sq Cm	23400.00	0.43	10062.00
80	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI Union confirming to IS 1239-II, 1991 with latest amendments if any (PWD SR 2023-24 Vol-V , Item No.11.12.6)	Each	1.00	275.01	275.00
81	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any. (PWD SR 2023-24 Vol-V Item No.11.14.6)	Each	3.00	219.39	658.00
82	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any for: (PWD SR 2023-24 Vol-V Item No.11.7.6)	Each	3.00	275.01	825.00
83	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work. (PWD SR 2023-24 Vol-V , Item No.13.32)	Job	1.00	6695.00	6695.00
84	Labour charges for erection of outdoor type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work. (PWD SR 2023-24 Vol-V Item No.13.34)	Job	1.00	1490.50	1491.00
85	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 20" x 20" x 2.5" (PWD Electrical SR 2022-23 Vol-VI Page No.4, Item No.5.6.6)	Each	1.00	326.13	326.00
86	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 17.50 HP - 120 LPM @ 308 m = 26 STG Outlet Dia - 2.00" (PWD SR 2023-24 Vol-V , Item No.13.19.6)	Each	1.00	77963.00	77963.00
87	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) (PWD SR 2023-24Vol-V Item No.13.27.1)	Each	55.00	3141.50	172783.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
88	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 (PWD Electrical SR 2023-24 Vol-VI , Item No.2.6.3)	Mtr	650.00	245.00	159250.00
89	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP (PWD Electrical SR 2023-24 Vol-VI , Item No.5.2.2)	Each	1.00	8764.00	8764.00
90	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm (PWD SR 2023-24 Vol-V Item No.13.24.1)	Each	1.00	1287.50	1288.00
91	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm (PWD SR 2023-24Vol-V Item No.13.25.1)	Each	1.00	1287.50	1288.00
92	Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest amendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box. (PWD SR 2023-24 Vol-V Item No.13.26)	per 3 poles	1.00	1184.50	1185.00
93	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete…. {I No 14.04 KPWD Electrical SR 2023-24}	No.	1.00	138.00	13[illegible]
94	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work. (PWD SR 2023-24 Vol -I Pg No 6 item no 1.6.1)	Mtr	67.50	498.52	33650.00
95	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete.75mm(weight of pipe - 0.917 kg) (PWD SR 2023-24 Vol-V Page No.120, Item No.10.14.9)	Mtr	150.00	197.76	29664.00
96	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications (PWD SR 2023-24 Vol -I Pg No 7 item no 1.10)	cum	67.50	164.80	11124.00
97	Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes but without fittings and the base support for tank(PWD SR 2023-24 Vol -2 item no 13.34)	L	10000.00	9.00	90000.00
98	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern (Volume-2, P.No.124, I.No.14.4.4 of KPWD S.R 2023-24)	Each	2.00	14377.00	28754.00
99	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required: using White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer (Volume-2, P.No.125, I.No.14.7.3 of KPWD S.R2023-24)	Each	2.00	3152.60	6305.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
100	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. (Volume-2, P.No.128, I.No.14.31 of KPWD S.R 2023-24)	Each	2.00	1342.00	2684.00
101	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 450 mm long towel rail with total length of 495 mm, 78 mm wide andeffective height of 88 mm, weighing not less than 170 g. (Volume-2, P.No.130, I.No.14.40.1 of KPWD S.R 2023-24)	Each	4.00	525.80	2103.00
102	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms. (Volume-2, P.No.129, I.No.14.38 of KPWD S.R 2023-24)	Each	4.00	159.50	638.00
103	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 (Volume 2, P.No.117, I.No.13.12 of KPWD S.R 2023-24	No.	14.00	698.50	9779.00
104	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. (Volume-2, P.No.117, I.No.13.15 of KPWD S.R2023-24)	Each	10.00	797.50	7975.00
105	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour. - 15 mm nominal bore with 45cm length (Volume-2, P.No.119, I.No.13.27.2 of KPWD S.R 2023-24)	Set	20.00	127.60	2552.00
106	Providing and fixing gun metal non- return valve of approved quality (screwed end) : 25 mm nominal bore -Horizontal type. (Volume-2, P.No.115, I.No.13.6.1.1 of KPWD S.R 2023-24)	Each	10.00	682.00	6820.00
107	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings, including fixing the pipe with the clamp at 1.00 mtr spacing . This includes joining of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Internal works) (Concealed work, including cutting chases and making good the walls etc.) 15mm dia pipe nomina (Volume-2, I.No.13.32.1 of KPWD S.R 2023-24)	Mtr	60.00	339.90	20394.00
108	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings, including fixing the pipe with the clamp at 1.00 mtr spacing . This includes joining of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Internal works) (Concealed work, including cutting chases and making good the walls etc.) 20mm dia pipe nomina (Volume-2, I.No.13.32.2 of KPWD S.R 2023-24)	Mtr	60.00	416.90	25014.00
109	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore (Volume-2 P.No.115, I.No.13.4.1 of KPWD S.R 2023-24)	No.	10.00	603.90	6039.00
110	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) : 32 mm nominal bore (Volume-2, Pg. No. 115, It. No. 13.4.2 of KPWD S.R2023-24)	No.	5.00	657.80	3289.00
111	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings. This includes joining of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. (External works) (Volume-2, I.No.13.33.1 of KPWD S.R2023-24	Mtr	40.00	182.60	7304.00
112	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings. This includes joining of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. (External works) (Volume-2, I.No.13.33.2 of KPWD S.R 2023-24	Mtr	30.00	238.70	7161.00
113	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings. This includes joining of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. (External works) (Volume-2, I.No.13.33.3 of KPWD S.R 2023-24)	Mtr	40.00	325.60	13024.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
114	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes, having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings. This includes joining of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer in Charge. 50mm dia pipe (External works) (Volume-2, I.No.13.33.6 of KPWD S.R 2023-24	Mtr	40.00	793.10	31724.00
115	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid (Item No 14.3.1, (Vol-II) Page No 123)	Each	2.00	6574.70	13149.00
116	Construction of Dry Lean Cement Concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm,aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing. MORTH Specification No. 601 (PWD SR 2023-24 Vol - III P.No. 49 - I.No. 6.1)	Cum	277.23	5412.00	1500369.00
117	Construction of un-reinforced plain cement concrete pavement using RMC M-30 grade with OPC @ 270 kg/m3 and GGBS@ 90 kg/m3 (75:25 proportion) as per approved mix design procedure and thickness as per design, over a prepared sub base. The superplastisiser confirming to IS 9103-1999 Reaffirmed-2008 ,Coarse aggregates and Fine aggregate confirming to IS:383-2016, transported to site, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work). Spreading the concrete with shovels, rackers and compacted using needle, suitable plate vibrator and finished in a continuous operation including provision of separation membrane and Hessian cloth finishing to lines and grades complete including cost of all materials, labour, all lead & lift, loading charges as per specification & direction of Engineer - incharge of the work. (Groove cutting shall be paid seperately) PWD SR 2023-24 Vol -III Pg No. 51 item no. 6.6)	Cum	134.42	7451.40	1001617.00
118	Crack Groove Cutting: Groove shall be cut using hand held electrically operated concrete cutting machine of size of 50 mm wide and 75 mm deep on each side of the crack to form as "V" groove all along the crack to fill the polyester resin / Epoxy putty (horizontal and vertical cracks). After the groove cutting, the concrete shall be removed from the groove using the pneumatic concrete chipping machine to form "V" groove. The item includes the cost of hire charges for all machineries, tools and barges and all labour charges etc., complete PWD SR 2023-24 Vol - III Pg No. 161 Item No. 10)	Mtrs	124.00	825.00	102300.00
119	Providing and Fixing Steel Work in built up tubular (round rectangular hollowtube etc) truseses etc, including cutting, hoisting, fixing in postion and applying priming coat of approved steel primer including welding and bolted with Special shaped washer set complete electric resistance ordiction butt weleded tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of Engineer in Charge. (PWD SR 23-24 Vol III Pg No. 82 Item No. 11.16.2)	Kgs	1500.00	161.70	242550.00
120	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.[PWD SR 2023-24/ Volume-2/ Chapter-19/P.NO-187/ Item no:-19.3]	Cum	19.51	2668.60	52064.00
121	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. [PWD SR 2023-24/ Volume-2/ Chapter-19/P.NO-187/ Item no:-19.7.3]	Cum	32.98	1131.90	37330.00
122	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineerin- charge. In cement mortar[PWD SR 2023-24/ Volume-2/ Chapter-19/P.NO-187/ Item no:-19.9.2]	Cum	8.94	1852.40	16560.00

SL NO	Description	UNIT	Qty	RATE	AMOUNT
123	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge.[PWD SR 2023-24/ Volume-2/ Chapter-19/P.NO-187/ Item no:-19.2.1]	Cum	12.00	1829.30	21952.00
124	Unload ing, Loading & Carriage of MaterialsLoading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 14 m3)[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-5/ Item no:-1.1 A]	Cum	11506.68	148.50	1708742.00
125	Cost of Haulage Excluding Loading and Unloading,Taking output 10 t load and lead 10 km = 100 t.km[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-3/ Item no:-1.4 iii A]	t.km	14073.20	198.00	2786494.00
126	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-29/ Item no:-1.4.2]	Cum	38.95	284.90	11097.00
127	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)- Mix 1:3:6(M10) Using 40 mm nominal size graded crushed coarse aggregates [PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-15/ Item no:-2.1.3]	Cum	6.68	6587.90	44007.00
				Sub Total	**84006588.00**
				GST 18%	**15121185.84**
				PMC 1%	**840065.88**
				Misc & Round off	**32160.28**
				Total	**100000000.00**

ADMINISTRATIVE SANCTION
Accorded for Rs. 10.00 Crores only
Head of A/c P3877
Div. T.S. No. 79/23-24 Date 7/3/2024
(TP) BBMP

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು